

Fraser and Johnston Co.
S A N F R A N C I S C O , C A L I F O R N I A



BILTWEL *and* TORIDAIRE *Gas Furnaces*

A COMPLETE LINE OF GAS FURNACES
AIR CONDITIONING MODELS—CLOSET, BASEMENT, ATTIC
GRAVITY BASEMENT MODELS • FLOOR FURNACE MODELS

BILTWEI

**AIR CONDITIONING
GAS FURNACES**

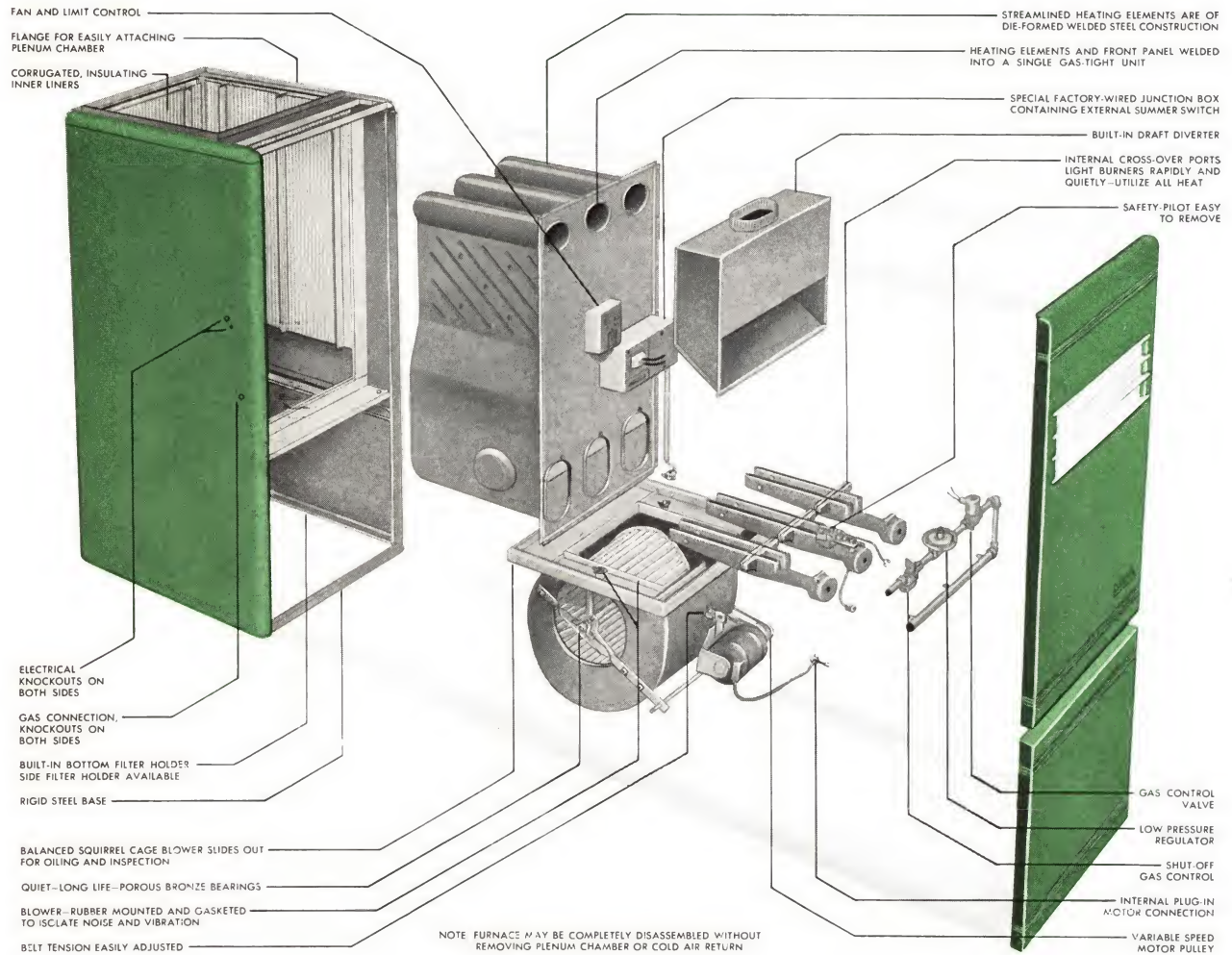
*Completely
Automatic*



MANUFACTURED BY
FRASER & JOHNSTON CO.
SAN FRANCISCO, CALIFORNIA

MODEL "CF" FURNACE

The Best Engineered Furnace on the Market



Model No.	BTU/HR. Input Nat. Mfg. L.P.G.	CFM		H. P. Motor	CASING DIMENSIONS			PLENUM		Vent Size	Shipping Wt. lbs.
		75° Rise	100° Rise		Width	Depth	Height	Width	Depth		
70CF	70,000	750	530	1/8	16"	28 1/2"	67 1/2"	13"	19 1/2"	4"	295
80CF	80,000	800	600	1/8	16	28 1/2	67 1/2	13	19 1/2	4	295
100CF	100,000	1000	750	1/8	22	28 1/2	67 1/2	19	19 1/2	5	340
120CF	120,000	1200	900	1/4	22	28 1/2	67 1/2	19	19 1/2	5	350
140CF	140,000	1400	1050	1/4	28	29	67 1/2	25	19 1/2	5	390
160CF	160,000	1600	1200	1/2	28	29	67 1/2	25	19 1/2	5	400
180CF	180,000	1800	1350	1/2	34	29	67 1/2	31	19 1/2	7	515
200CF	200,000	2000	1500	1/2	34	29	67 1/2	31	19 1/2	7	525

Larger sizes on application. Output is 80% of input.
Height to center, either side: Gas line 36 1/4", electrical connection 43 3/8".

MODERN PRESSED STEEL CONSTRUCTION

Made by one of the largest gas furnace manufacturers in the West, BILTVEL offers you the most advanced line of air conditioning gas furnaces on the market—**die-pressed—precision built—completely welded.**

Incorporating the latest refinements of heating design, finished in attractive blue green, BILTVEL furnaces **not only look good but are good.**

Scientifically designed burners get every last heat unit out of the gas. Inexpensive, easily removable filters take out dirt, pollen and germs. A quiet fan quickly blows the air to wherever it is needed—**quicker, better heat and more of it.**

Distributed nationally over 20 years, BILTVEL furnaces have been operating under every conceivable condition—**more than 90% are still in operation.**



MODEL LT

BILTVEL DESIGN FEATURES

- QUALITY** The best engineered furnace on the market—die-pressed, precision built, completely welded—makes BILTVEL the leader.
- COMFORT** Generous streamlined heating surfaces and narrow gas passages get you all the usable heat—large blower gives you adequate warm air—a room thermostat automatically gives you the temperature you desire—keeps you comfortable.
- COMPACTNESS** Space Saver—BILTVEL gives you more room in your home.
- APPEARANCE** Looks good—color harmonizes with any surroundings.
- QUIETNESS** You won't know it's there.
- SAFETY** American Gas Association approved.
- ECONOMY** Saves you money—costs little to buy—little to use.
- LONG LIFE** Twenty years operation is the rule rather than the exception.
- OTHER FEATURES** Comes assembled—easily installed—easy to get at.
- A COMPLETE LINE** Other BILTVEL furnaces include the "CD" and "CDB" air conditioning furnaces for smaller homes, "HF" horizontal air conditioning furnaces, "AFF", "ASW", "ADW", and "AXDW" floor furnaces and gravity base-ment furnaces.



FOR CLEAN CAREFREE COMFORT

BILTWEL "LT" FURNACES

Finished in attractive blue green, trimmed with silver, using the same heating elements and blowers as used on model "CF" furnaces, model "LT" Air Conditioning Furnaces are designed for use in basements.

AUTOMATICALLY CONTROLLED

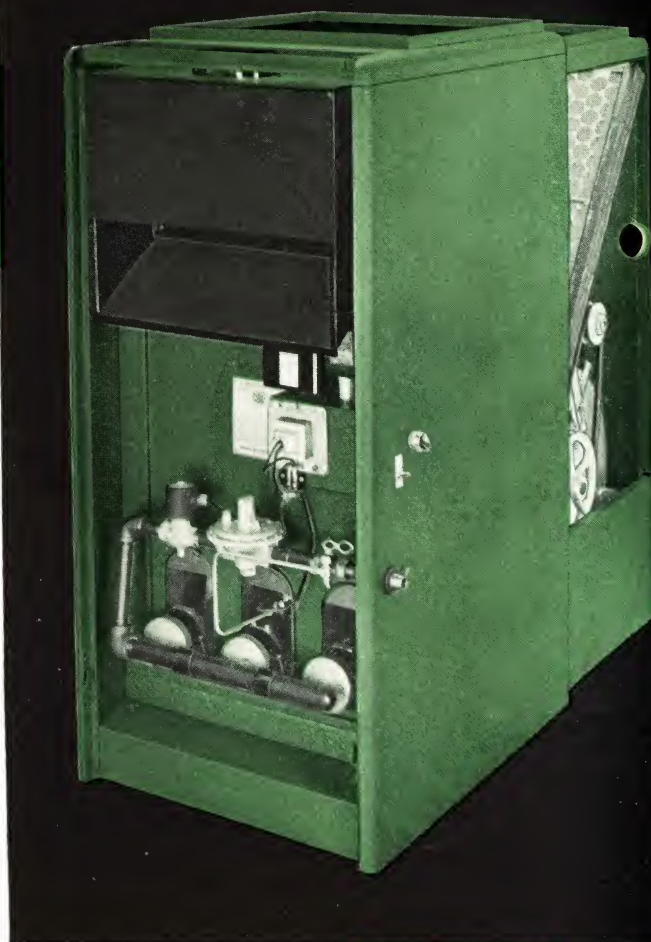
A room thermostat conveniently located on the wall will automatically control the heat in your home to the temperature you desire.

A HEATING AND VENTILATING SYSTEM

Your BILTWEL filters, heats and circulates air wherever and whenever you want it. A humidifier can be added if desired. By using part or all outside air, your house can be kept well ventilated and free from odors. In summer, air circulation gives a desirable cooling effect.

BILTWEL

Model "LT" and model "CF" Air Conditioning Furnaces incorporate the features that cover most house heating requirements.



MODEL LT

Model No.	BTU/HR. Input	CFM		H. P. Motor	CASING DIMENSIONS			PLENUM				Vent Size	Shipping Wt. lbs.
		75° Rise	100° Rise		Width	Depth	Height	WARM Width	AIR Depth	COLD Width	AIR Depth		
70LT	70,000	750	530	1/8	16"	46 1/2"	47 1/2"	13"	19 1/2"	11"	16"	4"	315
80LT	80,000	800	600	1/8	16	46 1/2	47 1/2	13	19 1/2	11	16	4	315
100LT	100,000	1000	750	1/8	22	46 1/2	47 1/2	19	19 1/2	17	16	5	360
120LT	120,000	1200	900	1/4	22	46 1/2	47 1/2	19	19 1/2	17	16	5	370
140LT	140,000	1400	1050	1/4	28	47	47 1/2	25	19 1/2	23	16	5	410
160LT	160,000	1600	1200	1/3	28	47	47 1/2	25	19 1/2	23	16	5	420
180LT	180,000	1800	1350	1/3	34	47	47 1/2	31	19 1/2	29	16	7	540
200LT	200,000	2000	1500	1/2	34	47	47 1/2	31	19 1/2	29	16	7	550

Larger sizes on application. Output is 80% of input.

DEPENDABLE HEATING INFORMATION... NO OBLIGATION

There are thousands of BILTWEL dealers throughout the United States and Canada. Your local BILTWEL dealer is an experienced heating man. You will be surprised how quickly he will solve your heating problems. Let him make a thorough survey and furnish you with an estimate without obligation to buy. (See your BILTWEL dealer today.)

PRINTED IN U. S. A.

BILTWEL



MODEL CD

AIR CONDITIONING GAS FURNACES

MODEL CD — Direct Drive

MODEL CDB — Belt Drive

The BILTWEL models CD and CDB air conditioning gas furnaces are designed for installation in smaller homes where space is at a premium and where price is a factor. The CD and the CDB offer the best in forced air heating . . . uniform heat in the entire house. **Quiet — economical — fully automatic.** Made by one of the largest furnace manufacturers in the West, BILTWEL is the leader in the design and advancement of quality gas furnaces at low cost.

Engineered for Economy

- DIE-PRESSED—PRECISION BUILT—Completely welded.
- ATTRACTIVE BLUE-GREEN ENAMEL FINISH.
- COMPACT—SPACE SAVER.
- FULLY AUTOMATIC—Thermostat control.
- QUIET—Smooth performance.
- FORCED AIR—Blower operated.
- FILTERED AIR—Built-in filter.
- LONG LIFE—Rugged design.
- ECONOMICAL—Over 80% efficient.
- SAFE—A.G.A. approved.
- EASILY SERVICED.

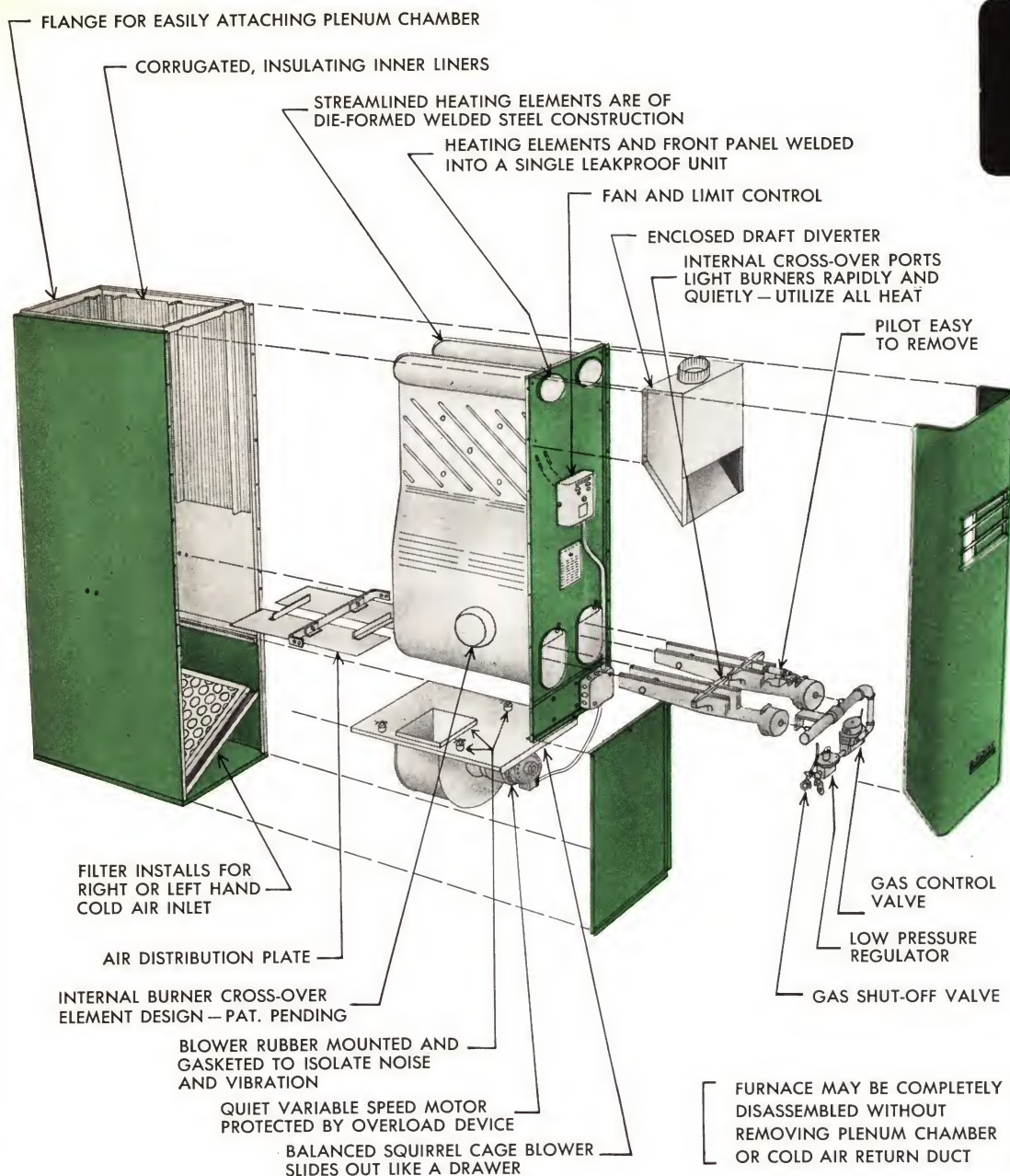


MODEL CDB

MANUFACTURED BY
FRASER & JOHNSTON CO.
SAN FRANCISCO, CALIFORNIA



MODEL "CD" FURNACE



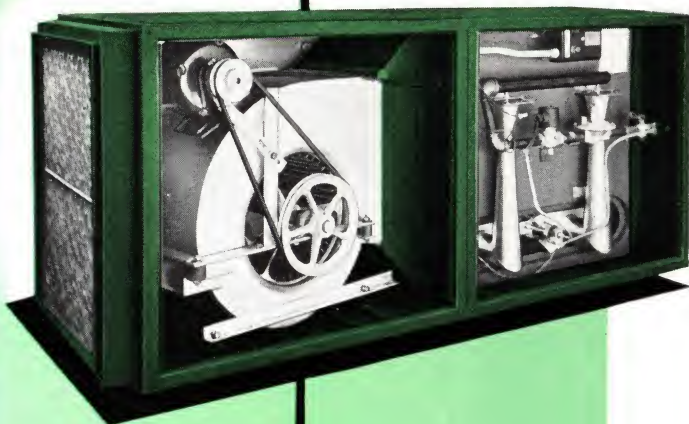
Model No.	BTU/Hr. Rating		CFM		DIMENSIONS			Warm Air Takeoff		Motor H. P.	Vent Size	Ship. Wt. lbs.
			100° Rise	75° Rise	Ht.	Casing Wdth.	Dpth.					
60 CD	60,000	48,000	450	...	66½	14	27	13	21½	1/12	4"	207
65 CD	65,000	52,000	500	...	66½	14	27	13	21½	1/12	4"	207
60 CDB	60,000	48,000	450	600	66½	14	27	13	21½	1/6	4"	235
70 CDB	70,000	56,000	530	700	66½	14	27	13	21½	1/6	4"	235
75 CDB	75,000	60,000	560	750	66½	14	27	13	21½	1/6	4"	235
80 CDB	80,000	64,000	600	800	66½	14	27	13	21½	1/6	4"	235

BILTWEL

MODEL "HF" AIR CONDITIONING FURNACE *Fully Automatic*



The BILTWEL "HF" Horizontal Furnace is made by one of the largest gas furnace manufacturers in the West. Designed and engineered to conserve space and give the best in heating efficiency, the BILTWEL "HF" is attractively finished in blue-green crinkled baked enamel — **die-pressed** — **precision built** — **completely welded**.



BILTWEL "HF" Air Conditioning Gas Furnaces are especially designed for installation in homes without basements—in attics—under floors—suspended in service porches—in stores or industrial plants. The BILTWEL "HF" is **efficient—compact—accessible**.

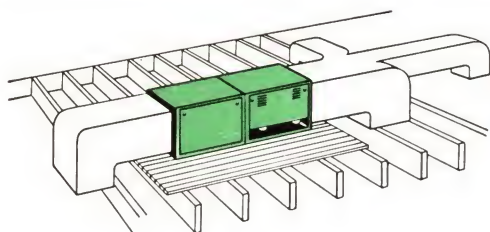
The many other BILTWEL furnaces include the Deluxe Models "CF", "LT", the Standard Models "CD", "CDB" Air Conditioning Furnaces — also "AFF", "ASW", "ADW", and "AXDW", floor furnaces and gravity furnaces. Distributed nationally for over 20 years, BILTWEL furnaces have been operating under every conceivable condition; **more than 90% are still in operation**.

MANUFACTURED BY
FRASER & JOHNSTON CO.
SAN FRANCISCO, CALIFORNIA

The Best Engineered Furnace on the Market

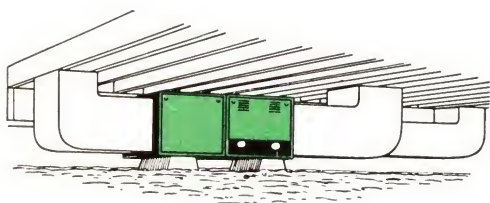


FOR CLEAN *Carefree Comfort*



ATTIC INSTALLATION

Horizontal compact design makes the BILTVEL "HF" horizontal furnace particularly adaptable for attic installation. Saves valuable floor space. May be installed with safety resting on wood flooring.

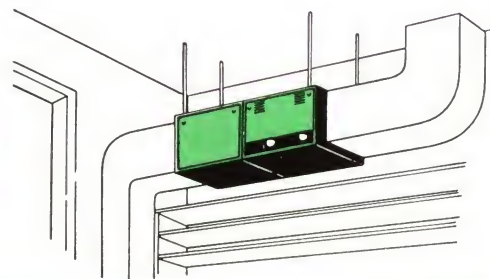


UNDER FLOOR

Only 26" high, BILTVEL "HF" may be installed beneath floor joists, saving space in the home. Simplifies installation of warm air ducts and cold air return.

SUSPENDED

Model "HF" may be suspended in service porches, stores, clubs, industrial plants, etc. Attractive blue-green enamel finish permits installation in open view. Exceptionally quiet blower and burners.



SPECIFICATIONS

Model No.	NAT. MFD. BTU./HR. Input	CFM		Motor H.P.	Casing Dimen.			Vent Size	Duct Dimensions				Filter Sizes	Ship. Wt.
		75° Rise	100° Rise		Wdth.	Ht.	Lgth.		Warm Air Wdth.	Warm Air Ht.	Cold Air Wdth.	Cold Air Ht.		
75	75,000	750	560	1/6	19"	26"	59"	5"	11 1/4" x 23 1/2"	14" x 23"			1-16 x 25 x 2	315
100	100,000	1000	750	1/6	22 1/2	26	59	5	14 3/4" x 23 1/2"	18" x 23"			1-20 x 25 x 2	350
120	120,000	1200	900	1/4	26	26	59	6	18 1/4" x 23 1/2"	24" x 23"			1-10 x 25 x 2	380
140	140,000	1400	1050	1/3	29 1/2	26	59	6	21 3/4" x 23 1/2"	24" x 23"			1-16 x 25 x 2	410
													1-10 x 25 x 2	

NOTE: Output is 80% of input. Reduction for high altitude should be made on basis of AGA recommendations. Furnace may be installed resting on combustible flooring and within 6" of combustible material at the sides and top.

DEPENDABLE HEATING INFORMATION . . . NO OBLIGATION

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BILTWEL

Gravity Furnace

PRESSED STEEL CONSTRUCTION

Made by one of the largest gas furnace manufacturers in the West, BILTWEL offers you the most advanced line of furnaces on the market — die pressed — precision built — completely welded.

Incorporating the latest developments of heating design, finished in attractive blue green, BILTWEL furnaces **not only look good but are good.**

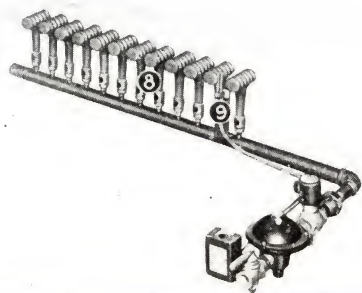
Distributed nationally over 20 years, BILTWEL furnaces have been operating under every conceivable condition. **More than 90% are still in operation.**

Other BILTWEL furnaces include the "CD", "CDB", "CF", "LT", "HF" air conditioning furnaces; "AFF", "ASW", "ADW", and "AXDW" floor furnaces — **a complete line.**



POINTS OF SUPERIORITY

- 1 **STREAMLINED HEATING ELEMENT**... Heavy pressed steel sections, welded into one piece, offer minimum resistance to airflow.
- 2 **RADIATION SHIELD** . . . Two insulating inner liners protect against heat loss.
- 3 **AIR SPACE** . . . Streamlined vertical heating surfaces allow ample airflow through the furnace.
- 4 **NARROW GAS PASSAGES** . . . develop highest efficiency by bringing a greater volume of flue gases into contact with the heating surfaces.
- 5 **ATTRACTIVE CASING** . . . Modern design with rounded corners finished in attractive green crinkle enamel.
- 6 **GAS VALVE** . . . controlled by room thermostat, automatically turns furnace on and off.
- 7 **PRESSURE REGULATOR** . . . Maintains a constant gas input regardless of fluctuating line conditions.
- 8 **BURNERS** . . . Improved multi-tubular type, raised port, multi-slot, fool proof with fixed orifice and air mixer, give more efficient clean combustion.
- 9 **AUTOMATIC PILOT** . . . Protects against operation of furnace if the pilot should become extinguished.



Manufactured by

FRASER AND JOHNSTON CO.
SAN FRANCISCO • CALIFORNIA

Clean Convenient Comfort



Printed in U.S.A.

Safe

Constructed of heavy rust resisting steel welded into one piece, the BILTWEEL heating element cannot possibly leak gas fumes into your house. An automatic pilot protects against opening the burner valve unless the pilot is in operation. Furthermore, the BILTWEEL Gravity Furnace has passed rigid tests designed for your safety by the American Gas Association.

Clean, Convenient

A BILTWEEL Gas Furnace, controlled by a conveniently located room thermostat, will automatically heat your home to the temperature you desire. No attention is necessary. Simply set the thermostat at the desired temperature and your BILTWEEL Gas Furnace will quickly send a flood of warm air throughout your home.

Economical, Efficient

The BILTWEEL Gas Furnace gives you the latest refinements in furnace design. Every effort has been made to make it a really efficient piece of heating equipment. Cold spots have been eliminated, thus insuring even heat in all rooms. Improved type multiple tubular burners make

every heat unit available. Streamlined construction gives more effective heating surfaces. The fast heating qualities of this furnace give great fuel saving during the season when heat is desired only for a short period. The outer casing is kept cool by double insulating moving layers of cold air, preventing excessive heat loss into the basement. The result is quick heat, better heat, and more of it.

Good Looking

Modern in design, with rounded corners, and well balanced proportions, it is finished in attractive green crinkle enamel. The BILTWEEL Gas Furnace is as pleasing in appearance as it is in operation. It blends agreeably with all types of furnishings, and fits perfectly into the modern basement, often used as an extra room.

Built to Last

BILTWEEL Gravity Furnaces are warranted against defects in workmanship or materials and will perform their work satisfactorily when properly installed and operated within their capacity. Thousands of satisfied users are receiving trouble-free heating service from BILTWEEL Furnaces installed twenty years ago.

SPECIFICATIONS

Model No.	BTU/Hr. Input Nat. Mfg. Gas	BTU/Hr. Input L.P.G.	*High Alt. Input	Casing Dim.			Sq. In. Take-off	Vent Size	Ship. Wt.
				W.	Dpth.	Ht.			
35	35,000	...	...	29	18	54	200	3"	170
50	50,000	...	...	29	22	54	262	4"	185
70	70,000	70,000	60,000	29	29	54	350	4"	235
85	85,000	80,000	70,000	29	34	54	425	**4"	265
100	100,000	90,000	90,000	29	39	54	500	5"	325
120	120,000	110,000	110,000	29	45	54	600	5"	350
135	135,000	120,000	120,000	29	50	54	675	5"	380
170	170,000	160,000	140,000	58	34	54	850	7"	565
200	200,000	180,000	180,000	58	39	54	1000	7"	620
240	240,000	220,000	220,000	58	45	54	1200	7"	700
270	270,000	240,000	240,000	58	50	54	1350	7"	770
300	300,000	270,000	270,000	87	39	54	1500	8"	930

NOTE: Output is 75% of Input.

*Above 2500 feet elevation.

**High Alt. 5"

BILTWEL

Floor Furnaces

MODEL "A"

FF, SW, DW, XDW

FLOOR FURNACES *For All Requirements*

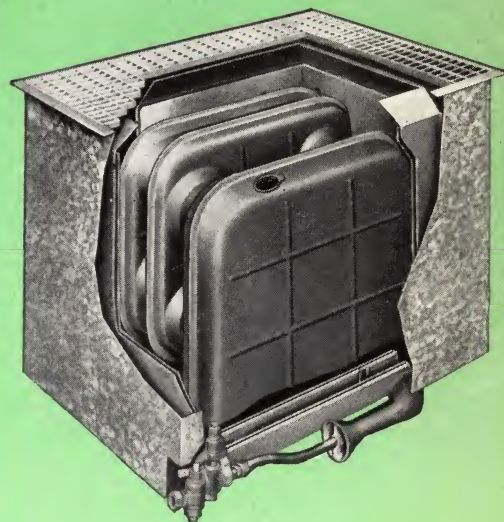
Made by one of the largest gas furnace manufacturers in the West, BILTWEL offers you the most advanced line of floor furnaces on the market—die pressed — precision built — completely welded.

Designed especially for homes, schools, stores, churches and other buildings without basement facilities, BILT-WEL floor furnaces bring heating comfort and convenience —low initial cost—low installation cost—low upkeep.

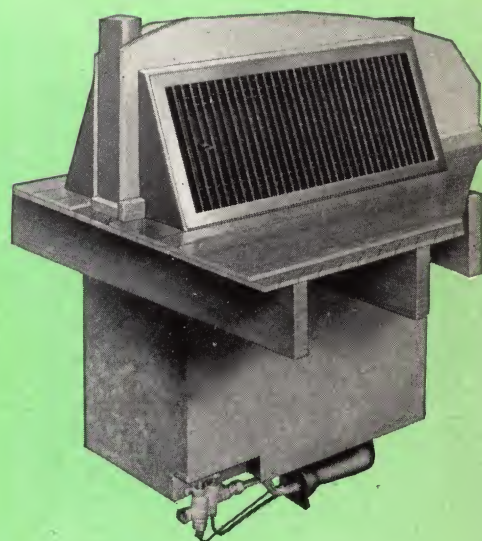
BILTWEL "BI-FLO" models feature the "BI-FLO" double action circulating head without floor grilles. By eliminating floor grilles, Fraser & Johnston Co. engineers have made possible a heating system that does double duty—it's more compact—better to look at—guards against dirt entering furnace.

MANUFACTURED BY
FRASER & JOHNSTON CO.

SAN FRANCISCO, CALIFORNIA



A45FF



A35DW "BIFLO"

More Comfort

AT LOWER COST!

ECONOMICAL OPERATION

In a BILTVEL floor furnace cold air is drawn through the outer part of the grille, flows downward along a double insulated liner, and passes under and around the heating elements where it is warmed and discharged through the center part of the grille. Air for combustion is NOT taken from the room, but is drawn from below. This positive, circulating action carries heat to the farthestmost corners of a room. With either manual or automatic room thermostat control, the initial cost of the BILTVEL is low and it is amazingly economical to operate!

BUILT TO LAST

BILTVEL Furnaces are warranted against defects in workmanship or materials, guaranteed to perform their work satisfactorily when properly installed and operated within their capacity. Thousands of satisfied users are enjoying trouble-free heating service from BILTVEL Furnaces which have been in operation for more than twenty years.

Biltvel Design Features

QUALITY—Die pressed—precision built—completely welded.
COMFORT—Broad heating surfaces—narrow gas passages give you all the usable heat.

ECONOMY—Costs little to buy—little to use.

QUIETNESS—You won't know it's there.

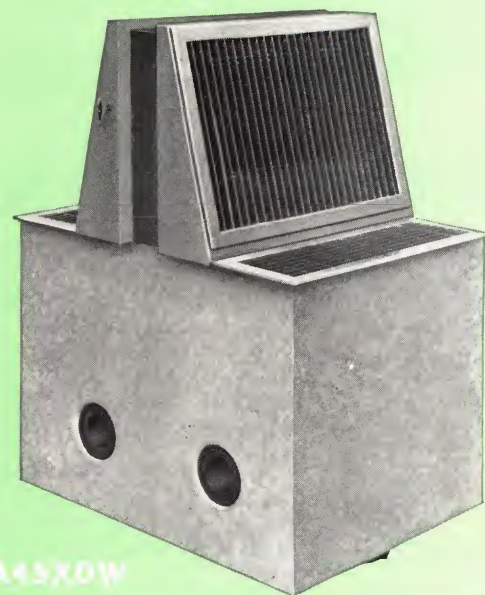
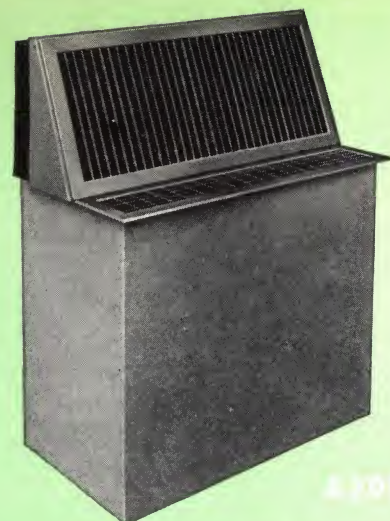
SAFETY—Gas tight A.G.A. approved.

ATTRACTIVE—Golden-Oak Hammertone grilles—dull black interior.

CONTROL—Single rod control valve—interlocking action at pilot and main burner valve—used with both manual and automatic—safer and prevents tampering by children.

OBSERVATION—Peephole for use in lighting pilot.

BURNERS—Heavy cast iron—high primary air slotted burners—for clean, efficient, quiet combustion.



MODEL	BTU-HR. INPUT			CASING DIM.		WALL OPENING						BASEBOARD OPENING			GRILLE FRAME EXTENSION			VENT SIZE	FLOOR TO TOP OF VENT	SHIPPING WEIGHTS		
	NAT. & MFD.		LPG.			DW		XDW		SW					DW	XDW	SW			DW	XDW	SW	FF	DW.	SW.	BASIC UNIT
	SEA LEVEL	HIGH ALT.	SEA LEVEL	L.	W.	WDTH.	HT.	WDTH.	HT.	WDTH.	HT.	DW	XDW	SW	DW	XDW	SW					
A-25	25000	.....	25000	26	x 14	27	x 11	.....	27	x 11	28	...	28	5½	...	5½	4	15½	100	115	90
A-30	30000	25000	30000	26	x 14	27	x 11	.....	27	x 11	28	...	28	5½	...	5½	4	15½	100	115	90
A-35	35000	30000	35000	28	x 14	29	x 12½	.....	.....	.....	30	...	...	5½	...	...	4	15½	105	120	95
A-40	40000	.....	40000	28	x 20	29	x 12¾	21	x 16½	.....	30	22¼	...	8½	5	...	4	15½	125	140	110
A-45	45000	40000	.....	28	x 20	29	x 12¾	21	x 16½	.....	30	22¼	...	8½	5	...	4	15½	125	140	110
A-50	50000	45000	45000	28	x 24	29	x 14¼	25	x 16½	.....	30	26¼	...	10½	5	...	4	15½	140	160	128

NOTE: OVERALL DEPTH OF CASING AND BURNERS IS 26½" ON ALL MODELS. DIMENSIONS ARE IN INCHES AND ARE NET. FOR ROUGHING IN, ALLOW ⅛" — ¼" TOLERANCE ON DIMENSIONS SHOWN FOR CASING AND D.W. WALL OPENING.

TORIDAIRE

**AIR CONDITIONING
GAS FURNACES**

*Completely
Automatic*



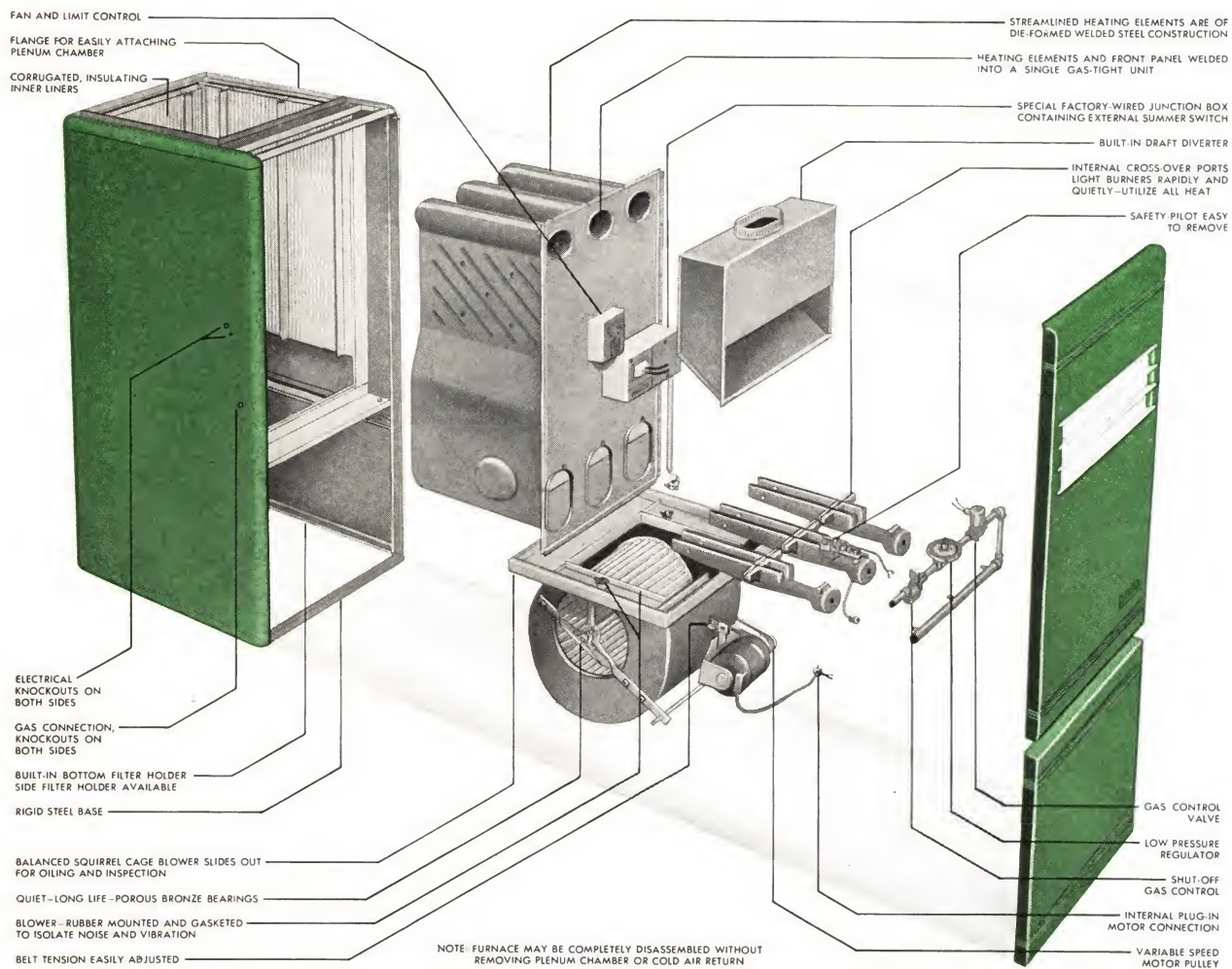
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160CF	160,000		1600	1200	1/2		28	29	67 1/2	25	19 1/2	5	400
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FOR CLEAN CAREFREE COMFORT

TORIDAIRE "LT" FURNACES

Finished in attractive blue green, trimmed with silver, using the same heating elements and blowers as used on model "CF" furnaces, model "LT" Air Conditioning Furnaces are designed for use in basements.

AUTOMATICALLY CONTROLLED

A room thermostat conveniently located on the wall will automatically control the heat in your home to the temperature you desire.

A HEATING AND VENTILATING SYSTEM

Your TORIDAIRE filters, heats and circulates air wherever and whenever you want it. A humidifier can be added if desired. By using part or all outside air, your house can be kept well ventilated and free from odors. In summer, air circulation gives a desirable cooling effect.

TORIDAIRE

Model "LT" and model "CF" Air Conditioning Furnaces incorporate the features that cover most house heating requirements.



MODEL LT

Model No.	BTU/HR. Input	CFM		H. P. Motor	CASING DIMENSIONS			PLENUM				Vent Size	Shipping Wt. lbs.
		75° Rise	100° Rise		Width	Depth	Height	WARM AIR Width	WARM AIR Depth	COLD AIR Width	COLD AIR Depth		
70LT	70,000	750	530	1/8	16"	46 1/2"	47 1/2"	13"	19 1/2"	11"	16"	4"	315
80LT	80,000	800	600	1/8	16	46 1/2	47 1/2	13	19 1/2	11	16	4	315
100LT	100,000	1000	750	1/8	22	46 1/2	47 1/2	19	19 1/2	17	16	5	360
120LT	120,000	1200	900	1/4	22	46 1/2	47 1/2	19	19 1/2	17	16	5	370
140LT	140,000	1400	1050	1/4	28	47	47 1/2	25	19 1/2	23	16	5	410
160LT	160,000	1600	1200	1/3	28	47	47 1/2	25	19 1/2	23	16	5	420
180LT	180,000	1800	1350	1/3	34	47	47 1/2	31	19 1/2	29	16	7	540
200LT	200,000	2000	1500	1/2	34	47	47 1/2	31	19 1/2	29	16	7	550

Larger sizes on application. Output is 80% of input.

DEPENDABLE HEATING INFORMATION... NO OBLIGATION

There are thousands of TORIDAIRE dealers throughout the United States and Canada. Your local TORIDAIRE dealer is an experienced heating man. You will be surprised how quickly he will solve your heating problems. Let him make a thorough survey and furnish you with an estimate without obligation to buy. (See your TORIDAIRE dealer today.)

PRINTED IN U. S. A.

TORIDAIRE



MODEL CD

AIR CONDITIONING GAS FURNACES

MODEL CD — Direct Drive

MODEL CDB — Belt Drive

The TORIDAIRE models CD and CDB air conditioning gas furnaces are designed for installation in smaller homes where space is at a premium and where price is a factor. The CD and the CDB offer the best in forced air heating . . . uniform heat in the entire house. **Quiet — economical — fully automatic.** Made by one of the largest furnace manufacturers in the West, TORIDAIRE is the leader in the design and advancement of quality gas furnaces at low cost.

Engineered for Economy

- DIE-PRESSED—PRECISION BUILT—Completely welded.
- ATTRACTIVE BLUE-GREEN ENAMEL FINISH.
- COMPACT—SPACE SAVER.
- FULLY AUTOMATIC—Thermostat control.
- QUIET—Smooth performance.
- FORCED AIR—Blower operated.
- FILTERED AIR—Built-in filter.
- LONG LIFE—Rugged design.
- ECONOMICAL—Over 80% efficient.
- SAFE—A.G.A. approved.
- EASILY SERVICED.



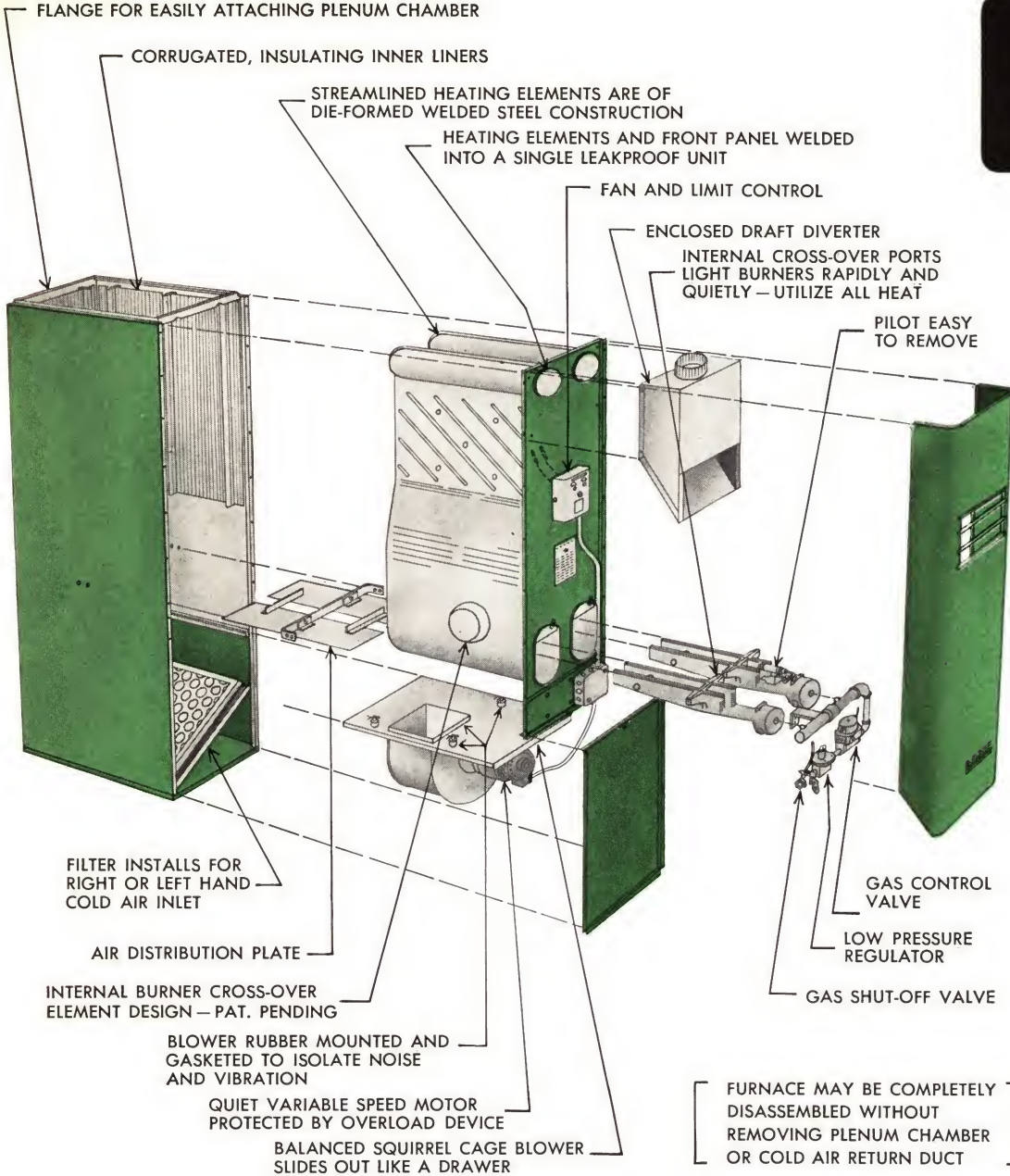
MODEL CDB

MANUFACTURED BY
FRASER & JOHNSTON CO.

SAN FRANCISCO, CALIFORNIA



**MODEL "CD"
FURNACE**



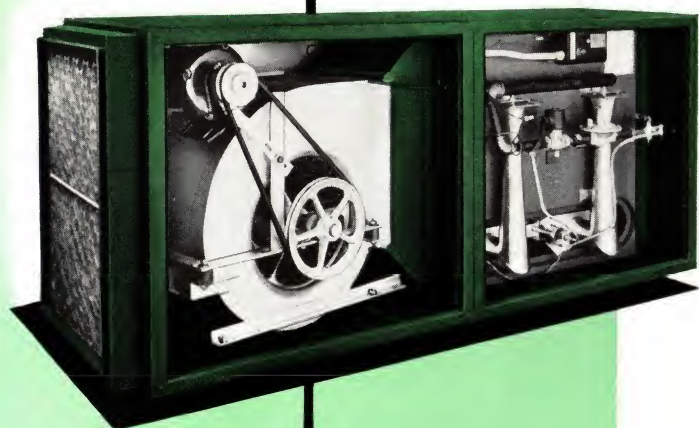
Model No.	BTU/Hr. Rating		CFM		DIMENSIONS					Motor H. P.	Vent Size	Ship. Wt. lbs.
	Input	Output	100° Rise	75° Rise	Ht.	Casing Wdth.	Dpth.	Warm Air Takeoff				
60 CD	60,000	48,000	450	...	66½	14	27	13	21½	¼ ₂	4"	207
65 CD	65,000	52,000	500	...	66½	14	27	13	21½	¼ ₂	4"	207
60 CDB	60,000	48,000	450	600	66½	14	27	13	21½	⅓ ₆	4"	235
70 CDB	70,000	56,000	530	700	66½	14	27	13	21½	⅓ ₆	4"	235
75 CDB	75,000	60,000	560	750	66½	14	27	13	21½	⅓ ₆	4"	235
80 CDB	80,000	64,000	600	800	66½	14	27	13	21½	⅓ ₆	4"	235

TORIDAIRE

MODEL "HF" AIR CONDITIONING FURNACE *Fully Automatic*



The TORIDAIRE "HF" Horizontal Furnace is made by one of the largest gas furnace manufacturers in the West. Designed and engineered to conserve space and give the best in heating efficiency, the TORIDAIRE "HF" is attractively finished in blue-green crinkled baked enamel—**die-pressed—precision built—completely welded.**



TORIDAIRE "HF" Air Conditioning Gas Furnaces are especially designed for installation in homes without basements—in attics—under floors—suspended in service porches—in stores or industrial plants. The TORIDAIRE "HF" Horizontal Furnace is **efficient—compact—accessible.**

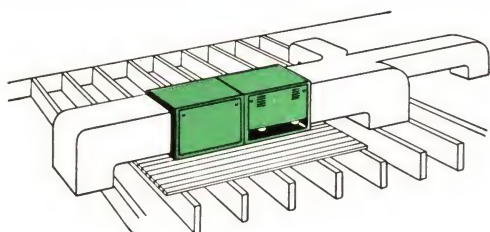
The many other TORIDAIRE furnaces include the Deluxe Models "CF", "LT", the Standard Models "CD", "CDB" Air Conditioning Furnaces—also "AFF", "ASW", "ADW", and "AXDW", floor furnaces and gravity furnaces. Distributed nationally for over 20 years, TORIDAIRE furnaces have been operating under every conceivable condition; **more than 90% are still in operation.**

MANUFACTURED BY
FRASER & JOHNSTON CO.
SAN FRANCISCO, CALIFORNIA

The Best Engineered Furnace on the Market

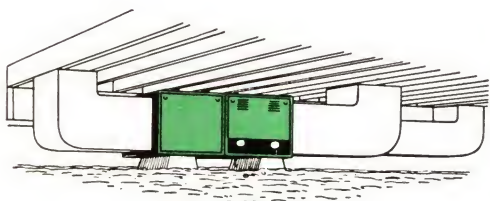


FOR CLEAN *Carefree Comfort*



ATTIC INSTALLATION

Horizontal compact design makes the TORIDAIRE "HF" Horizontal Furnace particularly adaptable for attic installation. Saves valuable floor space. May be installed with safety resting on wood flooring.

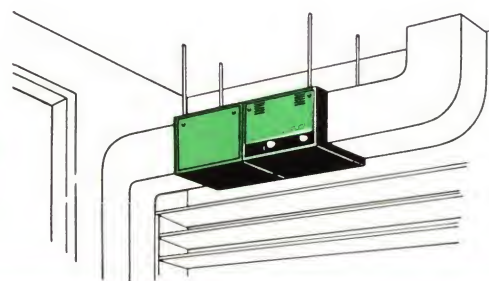


UNDER FLOOR

Only 26" high, TORIDAIRE "HF" may be installed beneath floor joists, saving space in the home. Simplifies installation of warm air ducts and cold air return.

SUSPENDED

Model "HF" may be suspended in service porches, stores, clubs, industrial plants, etc. Attractive blue-green enamel finish permits installation in open view. Exceptionally quiet blower and burners.



SPECIFICATIONS

Model No.	NAT. MFD. BTU/HR. Input	CFM		Motor H.P.	Casing Dimen.			Vent Size	Duct Dimensions				Filter Sizes	Ship. Wt.
		75° Rise	100° Rise		Wdth.	Ht.	Lgth.		Warm Air Wdth.	Warm Air Ht.	Cold Air Wdth.	Cold Air Ht.		
75	75,000	750	560	1/6	19"	26"	59"	5"	11 1/4" x 23 1/2"		14" x 23"		1-16 x 25 x 2	315
100	100,000	1000	750	1/6	22 1/2	26	59	5	14 3/4 x 23 1/2		18 x 23		1-20 x 25 x 2	350
120	120,000	1200	900	1/4	26	26	59	6	18 1/4 x 23 1/2		24 x 23		1-10 x 25 x 2	380
140	140,000	1400	1050	1/3	29 1/2	26	59	6	21 3/4 x 23 1/2		24 x 23		1-16 x 25 x 2	410

NOTE: Output is 80% of input. Reduction for high altitude should be made on basis of AGA recommendations. Furnace may be installed resting on combustible flooring and within 6" of combustible material at the sides and top.

DEPENDABLE HEATING INFORMATION . . . NO OBLIGATION

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TORIDAIRE *Gravity Furnace*

PRESSED STEEL CONSTRUCTION

Made by one of the largest gas furnace manufacturers in the West, TORIDAIRE offers you the most advanced line of furnaces on the market — **die pressed — precision built — completely welded.**

Incorporating the latest developments of heating design, finished in attractive blue green, TORIDAIRE furnaces **not only look good but are good.**

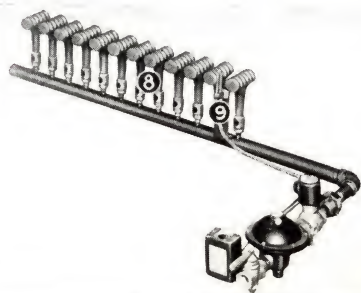
Distributed nationally over 20 years, TORIDAIRE furnaces have been operating under every conceivable condition. **More than 90% are still in operation.**

Other TORIDAIRE furnaces include the "CD", "CDB", "CF", "LT", "HF" air conditioning furnaces; "AFF", "ASW", "ADW", and "AXDW" floor furnaces — **a complete line.**



POINTS OF SUPERIORITY

- 1 **STREAMLINED HEATING ELEMENT**... Heavy pressed steel sections, welded into one piece, offer minimum resistance to airflow.
- 2 **RADIATION SHIELD** . . . Two insulating inner liners protect against heat loss.
- 3 **AIR SPACE** . . . Streamlined vertical heating surfaces allow ample airflow through the furnace.
- 4 **NARROW GAS PASSAGES** . . . develop highest efficiency by bringing a greater volume of flue gases into contact with the heating surfaces.
- 5 **ATTRACTIVE CASING** . . . Modern design with rounded corners finished in attractive green crinkle enamel.
- 6 **GAS VALVE** . . . controlled by room thermostat, automatically turns furnace on and off.
- 7 **PRESSURE REGULATOR** . . . Maintains a constant gas input regardless of fluctuating line conditions.
- 8 **BURNERS** . . . Improved multi-tubular type, raised port, multi-slot, fool proof with fixed orifice and air mixer, give more efficient clean combustion.
- 9 **AUTOMATIC PILOT** . . . Protects against operation of furnace if the pilot should become extinguished.



Manufactured by

FRASER AND JOHNSTON CO.

SAN FRANCISCO

CALIFORNIA

Clean Convenient Comfort



Printed in U.S.A.

Safe

Constructed of heavy rust resisting steel welded into one piece, the TORIDAIRE heating element cannot possibly leak gas fumes into your house. An automatic pilot protects against opening the burner valve unless the pilot is in operation. Furthermore, the TORIDAIRE Gravity Furnace has passed rigid tests designed for your safety by the American Gas Association.

Clean, Convenient

A TORIDAIRE Gas Furnace, controlled by a conveniently located room thermostat, will automatically heat your home to the temperature you desire. No attention is necessary. Simply set the thermostat at the desired temperature and your TORIDAIRE Gas Furnace will quickly send a flood of warm air throughout your home.

Economical, Efficient

The TORIDAIRE Gas Furnace gives you the latest refinements in furnace design. Every effort has been made to make it a really efficient piece of heating equipment. Cold spots have been eliminated, thus insuring even heat in all rooms. Improved type multiple tubular burners make

every heat unit available. Streamlined construction gives more effective heating surfaces. The fast heating qualities of this furnace give great fuel saving during the season when heat is desired only for a short period. The outer casing is kept cool by double insulating moving layers of cold air, preventing excessive heat loss into the basement. The result is quick heat, better heat, and more of it.

Good Looking

Modern in design, with rounded corners, and well balanced proportions, it is finished in attractive green crinkle enamel. The TORIDAIRE Gas Furnace is as pleasing in appearance as it is in operation. It blends agreeably with all types of furnishings, and fits perfectly into the modern basement, often used as an extra room.

Built to Last

TORIDAIRE Gravity Furnaces are warranted against defects in workmanship or materials and will perform their work satisfactorily when properly installed and operated within their capacity. Thousands of satisfied users are receiving trouble-free heating service from TORIDAIRE Furnaces installed twenty years ago.

SPECIFICATIONS

Model No.	BTU/Hr. Input Nat. Mfg. Gas	BTU/Hr. Input L.P.G.	*High Alt. Input	Casing Dim.			Sq. In. Take-off	Vent Size	Ship. Wt.
				W.	Dpth.	Ht.			
35	35,000	...	...	29	18	54	200	3"	170
50	50,000	...	...	29	22	54	262	4"	185
70	70,000	70,000	60,000	29	29	54	350	4"	235
85	85,000	80,000	70,000	29	34	54	425	**4"	265
100	100,000	90,000	90,000	29	39	54	500	5"	325
120	120,000	110,000	110,000	29	45	54	600	5"	350
135	135,000	120,000	120,000	29	50	54	675	5"	380
170	170,000	160,000	140,000	58	34	54	850	7"	565
200	200,000	180,000	180,000	58	39	54	1000	7"	620
240	240,000	220,000	220,000	58	45	54	1200	7"	700
270	270,000	240,000	240,000	58	50	54	1350	7"	770
300	300,000	270,000	270,000	87	39	54	1500	8"	930

NOTE: Output is 75% of Input.

*Above 2500 feet elevation.

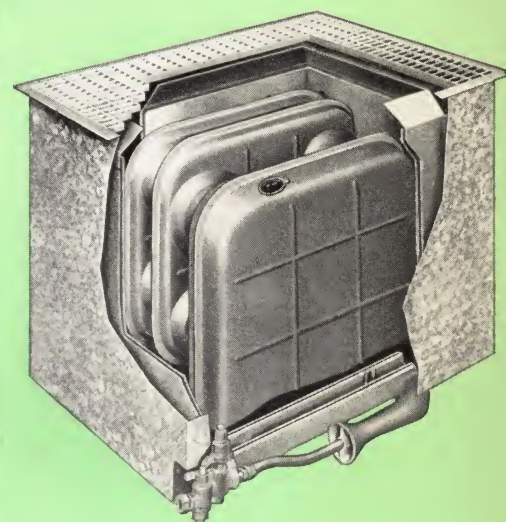
**High Alt. 5"

TORIDAIRE

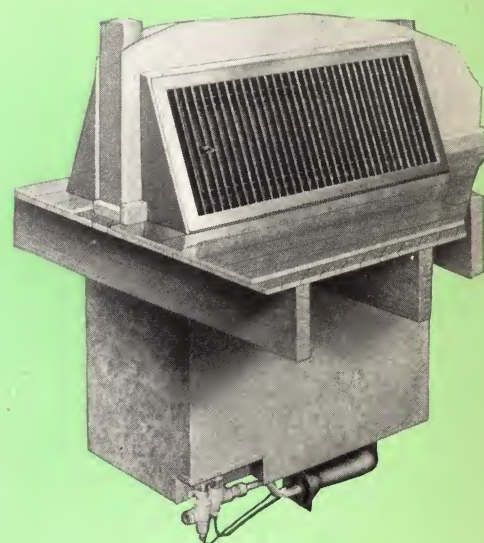
Floor Furnaces

MODEL "A"

FF, SW, DW, XDW



A45FF



A35DW "BI-FLO"

FLOOR FURNACES *For All Requirements*

Made by one of the largest gas furnace manufacturers in the West, TORIDAIRE offers you the most advanced line of floor furnaces on the market—**die pressed — precision built — completely welded.**

Designed especially for homes, schools, stores, churches and other buildings without basement facilities, TORIDAIRE floor furnaces bring heating comfort and convenience —**low initial cost—low installation cost—low upkeep.**

TORIDAIRE "BI-FLO" models feature the "BI-FLO" double action circulating head without floor grilles. By eliminating floor grilles, Fraser & Johnston Co. engineers have made possible a heating system that does double duty—it's **more compact—better to look at—guards against dirt entering furnace.**

MANUFACTURED BY
FRASER & JOHNSTON CO.

SAN FRANCISCO, CALIFORNIA



More Comfort

AT LOWER COST!

ECONOMICAL OPERATION

In a TORIDAIRE floor furnace cold air is drawn through the outer part of the grille, flows downward along a double insulated liner, and passes under and around the heating elements where it is warmed and discharged through the center part of the grille. Air for combustion is NOT taken from the room, but is drawn from below. This positive, circulating action carries heat to the farthestmost corners of a room. With either manual or automatic room thermostat control, the initial cost of the TORIDAIRE is low and it is amazingly economical to operate!

BUILT TO LAST

TORIDAIRE Furnaces are warranted against defects in workmanship or materials, guaranteed to perform their work satisfactorily when properly installed and operated within their capacity. Thousands of satisfied users are enjoying trouble-free heating service from TORIDAIRE Furnaces which have been in operation for more than twenty years.

Toridaire Design Features

QUALITY—Die pressed—precision built—completely welded.
COMFORT—Broad heating surfaces—narrow gas passages give you all the usable heat.

ECONOMY—Costs little to buy—little to use.

QUIETNESS—You won't know it's there.

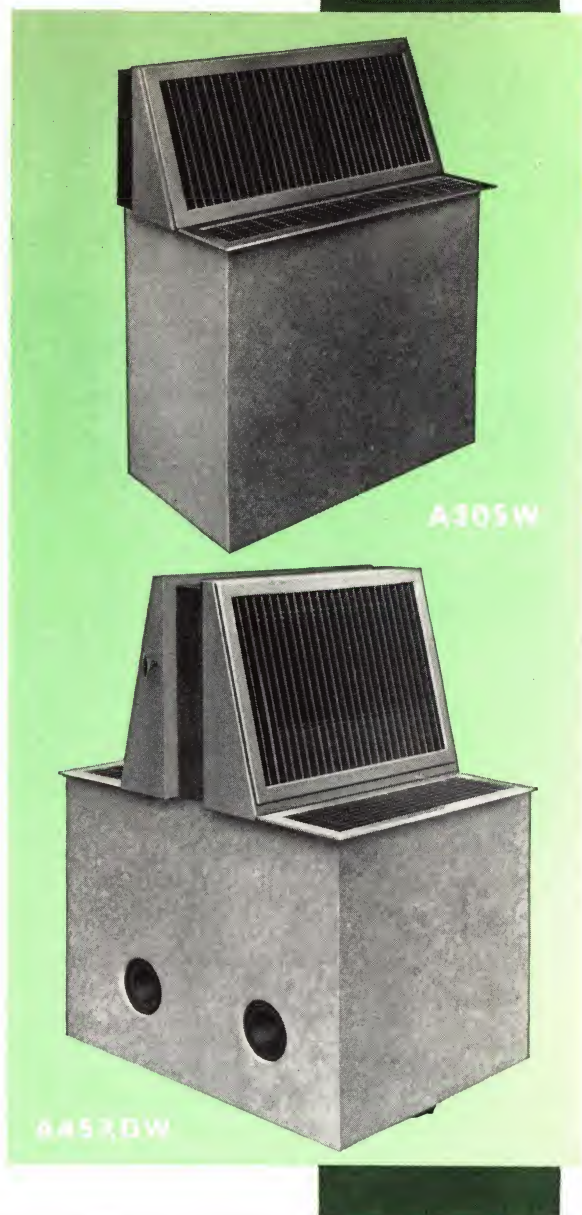
SAFETY—Gas tight A.G.A. approved.

ATTRACTIVE—Golden-Oak Hammertone grilles—dull black interior.

CONTROL—Single rod control valve—interlocking action at pilot and main burner valve—used with both manual and automatic—safer and prevents tampering by children.

OBSERVATION—Peephole for use in lighting pilot.

BURNERS—Heavy cast iron—high primary air slotted burners—for clean, efficient, quiet combustion.



MODEL	BTU-HR. INPUT			CASING DIM.		WALL OPENING						BASEBOARD OPENING			GRILLE FRAME EXTENSION			VENT SIZE	FLOOR TO TOP OF VENT	SHIPPING WEIGHTS		
	NAT. & MFD.		LPG.			DW		XDW		SW					DW		XDW			SW	FF	DW.	SW.	BASIC
	SEA LEVEL	HIGH ALT.	SEA LEVEL	L.	W.	WIDTH.	HT.	WIDTH.	HT.	WIDTH.	HT.	DW	XDW	SW	DW	XDW	SW	OF VENT		XDW.		UNIT
A-25	25000	.....	25000	26 x 14		27 x 11	.....		27 x 11	28	...	28		5½	...	5½	4	15½	100#	115	90
A-30	30000	25000	30000	26 x 14		27 x 11	.....		27 x 11	28	...	28		5½	...	5½	4	15½	100	115	90
A-35	35000	30000	35000	28 x 14		29 x 12½	.....		.....	30	...	...		5½	...	...	4	15½	105	120	95
A-40	40000	.....	40000	28 x 20		29 x 12½	21 x 16½	.....		30	22¼	...		8½	5	...	4	15½	125	140	110
A-45	45000	40000	.....	28 x 20		29 x 12½	21 x 16½	.....		30	22¼	...		8½	5	...	4	15½	125	140	110
A-50	50000	45000	45000	28 x 24		29 x 14¼	25 x 16½	.....		30	26¼	...		10½	5	...	4	15½	140	160	128

NOTE: OVERALL DEPTH OF CASING AND BURNERS IS 26½" ON ALL MODELS. DIMENSIONS ARE IN INCHES AND ARE NET. FOR ROUGHING IN, ALLOW ⅛" — ¼" TOLERANCE ON DIMENSIONS SHOWN FOR CASING AND D.W. WALL OPENING.

